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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/673,428	12/05/2000	Paul Lippens	CASM116373	8709
26389	7590 07/29/2004		EXAMINER	
CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC			SIMONE, CATHERINE A	
1420 F1FTH SUITE 2800	O FIFTH AVENUE TE 2800		ART UNIT	PAPER NUMBER
SEATTLE,	WA 98101-2347	1772		
			DATE MAILED: 07/29/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/673,428	LIPPENS ET AL.		
		Examiner	Art Unit		
		Catherine Simone	1772		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address		
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. experiod for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
·	Responsive to communication(s) filed on <u>01 June 2004</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Dienocit	ion of Claims				
5)□ 6)⊠ 7)□ 8)□ Applicat i	Claim(s) 1-18 and 33 is/are pending in the app 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-18 and 33 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc	wn from consideration. r election requirement. er.	Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).		
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	•		
Priority (ınder 35 U.S.C. § 119				
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage		
•	W-3				
2) Notic 3) Inform Pape	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/1/04 has been entered.

Withdrawn Rejections

- 2. The 35 U.S.C. 102 rejection of claims 1-5, 8, 10, 11, 14, 16, 18 and 33 as anticipated by Namikawa et al. of record in the Office Action mailed 6/18/03, Pages 2-3, Paragraph #2 has been withdrawn due to the Applicants amendment filed 6/1/04.
- 3. The 35 U.S.C. 103 rejection of claims 6 and 7 over Namikawa et al. in view of Chamberlain of record in the Office Action mailed 6/18/03, Pages 3-4, Paragraph #4 has been withdrawn due to the Applicants amendment filed 6/1/04.
- 4. The 35 U.S.C. 103 rejection of claims 9, 12, 13, 15 and 17 over Namikawa et al. in view of Pettigrew et al. of record in the Office Action mailed 6/18/03, Pages 4-5, Paragraph #5 has been withdrawn due to the Applicants amendment filed 6/1/04.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 6. Claims 1-5, 8, 17, 18 and 33 are rejected under 35 U.S.C. 102(a) as being anticipated by Mizukami (JP 10-105031).

Mizukami discloses a security element comprising a magnetic layer (Drawing 1, element 3) and an embossed layer (Drawing 1, element 2), the embossed layer having a diffractive pattern of a particular shape producing an optical diffraction effect, the magnetic layer being a soft magnetic layer (see abstract, lines 16-18) which is selectively magnetizable to show magnetic properties when exposed to a magnetic field, wherein at least part of the soft magnetic layer has the shape of the diffractive pattern of the embossed layer, the embossed layer affecting the magnetic properties of the soft magnetic layer such that when the security element is selectively magnetized the effects are detectable externally of the security element. Regarding claims 2-4, note a metal (aluminum) layer with a high specular reflectance (Drawing 2, element 5; also see page 2 of the translated detailed description, paragraph 0008). Regarding claim 5, note an adhesive layer (Drawing 1, element 4). Regarding claim 8, note the particular shape of the embossed pattern produces a hologram (see abstract, lines 10-11). Regarding claim 17, note the soft magnetic layer is a sputtered layer (see abstract, line 13-18). Regarding claim 18, note the effect on the magnetic properties of the soft magnetic layer inherently is at least a change in coercive force of 10% or a change in relative permeability of at least 10% (see abstract, lines 16-

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19). Regarding **claim 33**, note the thickness of the soft magnetic layer is in the range of 150-700 nm (see abstract, lines 13-15 and see translated detailed description, page 2, lines 13-14).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizukami (JP 10-105031) in view of Chamberlain (5,762,377).

Mizukami discloses a security element comprising a magnetic layer (Drawing 1, element 3) and an embossed layer (Drawing 1, element 2), the embossed layer having a diffractive pattern of a particular shape producing an optical diffraction effect, the magnetic layer being a soft magnetic layer (see abstract, lines 16-18) which is selectively magnetizable to show magnetic properties when exposed to a magnetic field, wherein at least part of the soft magnetic layer has the shape of the diffractive pattern of the embossed layer, the embossed layer affecting the magnetic properties of the soft magnetic layer such that when the security element is selectively magnetized the effects are detectable externally of the security element. However, Mizukami fails to disclose the adhesive layer and the embossed layer comprising an a,b-ethylenically unsaturated carboxylic acid-based resin. Chamberlain teaches it is old and well-known in the analogous art an adhesive layer being an a,b-ethylenically unsaturated carboxylic

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acid-based resin (see col. 15, lines 60-65) for the purpose of producing a security element with increased protection against counterfeiting.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to have the adhesive layer and embossed layer in Mizukami comprise an a,b-ethylenically unsaturated carboxylic acid-based resin as suggested by Chamberlain in order to produce a security element with increased protection against counterfeiting.

5. Claims 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizukami (JP 10-105031) in view of Pettigrew et al. (4,960,651).

Mizukami discloses a security element comprising a magnetic layer (Drawing 1, element 3) and an embossed layer (Drawing 1, element 2), the embossed layer having a diffractive pattern of a particular shape producing an optical diffraction effect, the magnetic layer being a single soft magnetic layer (see abstract, lines 16-18) which is selectively magnetizable to show magnetic properties when exposed to a magnetic field, wherein at least part of the soft magnetic layer has the shape of the diffractive pattern of the embossed layer, the embossed layer affecting the magnetic properties of the soft magnetic layer such that when the security element is selectively magnetized the effects are detectable externally of the security element. However, Mizukami fails to disclose the soft-magnetic layer comprising an alloy containing cobalt and niobium, together with a glass-forming element and an alloy having a composition Co 35-70, Fe 2-7, Ni 10-35, Mo 0-2, Si 12-20, B 6-12 and the soft-magnetic layer having a coercive force in the range 3 A/m to 500 A/m. Pettigrew et al. teaches it is old and well-known in the analogous art to have a soft-magnetic layer comprising an alloy containing cobalt and niobium, together

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with a glass-forming element (see col. 5, lines 27-28) and an alloy having a composition Co 35-70, Fe 2-7, Ni 10-35, Mo 0-2, Si 12-20, B 6-12 (see col. 6, lines 9-11) and a soft-magnetic layer having a coercive force in the range 3 A/m to 500 A/m (see col. 7, line 25-30) for the purpose of producing a security element with low coercivity and high permeability.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to have modified the soft-magnetic layer in Mizukami to comprise an alloy containing cobalt and niobium, together with a glass-forming element and an alloy having a composition Co 35-70, Fe 2-7, Ni 10-35, Mo 0-2, Si 12-20, B 6-12 and to have coercive force in the range 3 A/m to 500 A/m as suggested by Pettigrew et al. in order to produce a security element with low coercivity and high permeability.

Response to Arguments

6. Applicant's arguments with respect to claims 1-18 and 33 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Catherine Simone whose telephone number is (571)272-1501. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Catherine Simone

Examiner
Art Unit 1772

July 23, 2004

SUPERVISORY PATENT EXAMINER